

**AMENDMENTS TO THE CLAIMS:**

The listing of claims will replace all prior versions, and listings of claims in the application:

**LISTING OF THE CLAIMS**

1. (Original) Use of xenon in the preparation of a medicament for the treatment of neonatal asphyxia in a neonatal subject, wherein said medicament is for use in combination with hypothermia.
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Canceled)
7. (Canceled)
8. (Canceled)
9. (Canceled)
10. (Canceled)
11. (Canceled)
12. (Canceled)
13. (Canceled)
14. (Canceled)
15. (Canceled)

16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Original) A method of treating neonatal asphyxia in a mammal in need thereof, said method comprising:

- (a) administering a therapeutically effective amount of xenon to the mammal; and
- (b) subjecting the mammal to hypothermia.

21. (Original) A method according to claim 20 wherein the mammal is a human.

22. (Currently Amended) A method according to claim 20 or ~~claim 21~~ wherein the xenon is administered in combination with a pharmaceutically acceptable carrier, diluent or excipient.

23. (Currently Amended) A method according to ~~any one of claims 20 to 22~~ claim 20 wherein the xenon is administered by inhalation.

24. (Original) A method according to claim 23 wherein the xenon is administered in the form of a 20 to 70% v/v xenon/air mixture.

25. (Currently Amended) A method according to ~~any one of claims 20 to 22~~ claim 20 wherein the xenon is administered by perfusion.

26. (Currently Amended) A method according to ~~any one of the claims 20~~ claim 20 to 22 wherein the xenon is administered in the form of a solution or emulsion.

27. (Original) A method according to claim 26 wherein the xenon is administered in the form of a lipid emulsion.

28. (Currently Amended) A method according to ~~any one of claims 26 or 27~~  
claim 26 wherein the xenon is administered intravenously, neuraxially or transdermally.

29. (Currently Amended) A method according to ~~any one of claim 20 to 28~~  
claim 20 wherein the xenon is administered simultaneously, sequentially or separately with hypothermia.

30. (Original) A method according to claim 29 wherein the xenon is administered simultaneously with hypothermia.

31. (Currently Amended) A method according to ~~any one of claims 20 to 30~~  
claim 20 wherein the temperature of the mammal is maintained at a temperature of from about 32°C to about 36°C.

32. (Original) A method according to claim 31 wherein the temperature of the mammal is maintained at a temperature of from about 33°C to about 35°C.

33. (Currently Amended) A method according to ~~any one of claims 20 to 32~~  
claim 20 wherein the hypothermia is maintained for a period of at least 6 hours after the hypoxic-ischemic (HI) insult.

34. (Currently Amended) A method according to ~~any one of claims 20 to 33~~  
claim 20 wherein the hypothermia is maintained for a period of from about 6 to about 24 hours after the hypoxic-ischemic (HI) insult.

35. (Currently Amended) A method according to ~~any one of claims 20 to 34~~  
claim 20 wherein the xenon is administered to the mother of the mammal prior to birth.

36. (Original) A method according to claim 35 wherein the xenon is administered to the mother of the mammal prior to, or during, labour.

37. (Currently Amended) A method according to claim 35 or 36 wherein the xenon is administered to the mother of the mammal for up to about 24 hours prior to birth.

38. (Currently Amended) A method according to ~~any one of claims 20 to 37~~  
claim 20 wherein the xenon is administered in a therapeutically effective amount.

39. (Currently Amended) A method according to ~~any one of claims 20 to 37~~  
claim 20 wherein the xenon is administered in a sub-therapeutically effective amount.

40. (Currently Amended) A method according to ~~any one of claims 20 to 38~~  
claim 20 wherein the xenon is administered in a combination with an aesthetic selected  
from isoflurane, sevoflurane and desflurane.

41. (Original) A method of treating neonatal asphyxia in a mammal in need  
thereof, said method comprising administering a therapeutically effective amount of xenon  
to the mammal in combination with hypothermia.

42. (Original) Use of xenon in the preparation of a medicament for the  
treatment of neonatal asphyxia, wherein said treatment comprises administering to a  
subject simultaneously, sequentially or separately xenon in combination with hypothermia.

43. (Original) Use of xenon, in combination with hypothermia, for the  
treatment of neonatal asphyxia.

44. (Currently Amended) ~~Another aspect of the invention relates to a~~ A  
method of treating neonatal asphyxia in a mammal in need thereof, said method  
comprising:

- (a) administering a therapeutically effective amount of xenon to the mother of the  
mammal prior to and/or during labour; and
- (b) subjecting the mammal to hypothermia after birth.

45. (Canceled)